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E1 THROUGH E22 ASSIGNED

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 2.69 8.51

FILE 'REGISTRY' ENTERED AT 09:03:44 ON 02 OCT 2008
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STRUCTURE FILE UPDATES: 1 OCT 2008 HIGHEST RN 1056151-32-6
DICTIONARY FILE UPDATES: 1 OCT 2008 HIGHEST RN 1056151-32-6

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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1 151069-56-6/BI
(151069-56-6/RN)
1 213039-73-7/BI
(213039-73-7/RN)
1 213039-86-2/BI
(213039-86-2/RN)
1 64-19-7/BI
(64-19-7/RN)
1 668486-47-3/BI
(668486-47-3/RN)
1 7732-18-5/BI
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1 835621-38-0/BI
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1 835621-42-6/BI

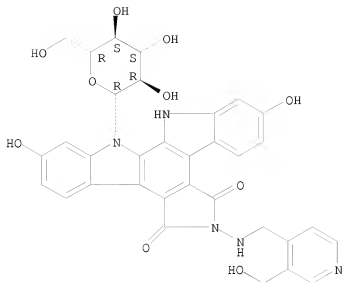
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 1 872-85-5/BI
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 OR 835621-43-7/BI OR 835621-44-8/BI OR 835621-45-9/BI OR 835621-
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 OR 835621-50-6/BI OR 835621-51-7/BI OR 835621-53-9/BI OR 872-85-
 5/BI)

=> d 13 1-22

L3 ANSWER 1 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 835621-53-9 REGISTRY
 ED Entered STN: 22 Feb 2005
 CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
 (hydroxymethyl)-4-pyridinyl]methyl]amino]-, monomethanesulfonate (salt),
 compd. with ethanol (1:1) (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C33 H29 N5 O10 . C2 H6 O . C H4 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

 CM 1
 CRN 213039-73-7
 CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 75-75-2

CMF C H4 O3 S



CM 3

CRN 64-17-5

CMF C2 H6 O



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN

RN 835621-51-7 REGISTRY

ED Entered STN: 22 Feb 2005

CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[(4-
pyridinylmethyl)amino]-, methanesulfonate (salt) (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C32 H27 N5 O9 . x C H4 O3 S

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LN      ANSWER 3 OF 22  REGISTRY  COPYRIGHT 2008 ACS on STN
RN      835621-50-6   REGISTRY
ED      Entered STN:   22 Feb 2005
CN      5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
        12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[(4-
        pyridinylmethyl)amino]-, sulfate (salt) (9CI) (CA INDEX NAME)
FS      STEREOSEARCH
MF      C32 H27 N5 O9 . x H2 O4 S
SR      CA

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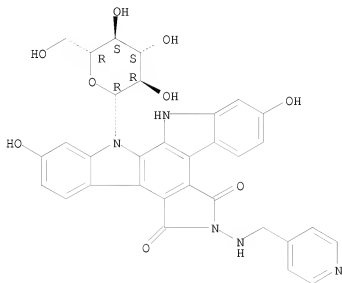
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 668486-47-3

CMF C32 H27 N5 O9

Absolute stereochemistry.



CM 2

CRN 7664-93-9

CMF H2 O4 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN

RN 835621-49-3 REGISTRY

ED Entered STN: 22 Feb 2005

CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[(4-
pyridinylmethyl)amino]-, hydrochloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C32 H27 N5 O9 . x Cl H

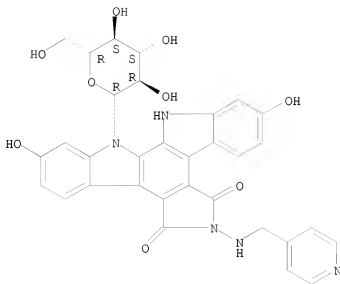
SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CRN (668486-47-3)

Absolute stereochemistry.

PAGE 1-A



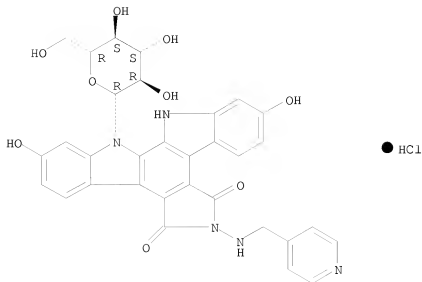
PAGE 2-A

●x HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 835621-48-2 REGISTRY
ED Entered STN: 22 Feb 2005
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[(4-
pyridinylmethyl)amino]-, monohydrochloride (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C32 H27 N5 O9 . Cl H
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (668486-47-3)

Absolute stereochemistry.



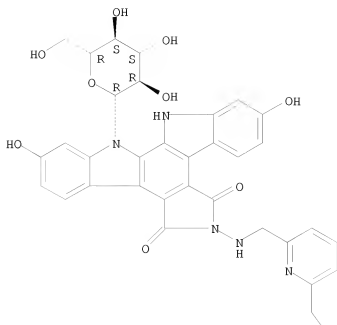
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 6 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 835621-47-1 REGISTRY
ED Entered STN: 22 Feb 2005
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[6-
(hydroxymethyl)-2-pyridinyl]methyl]amino]-, methanesulfonate (salt) (9CI)
(CA INDEX NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10 . x C H4 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-86-2
CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 75-75-2

CMF C H4 O3 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 7 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN

RN 835621-46-0 REGISTRY

ED Entered STN: 22 Feb 2005

CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[6-(hydroxymethyl)-2-pyridinyl]methyl]amino]-, sulfate (salt) (9CI) (CA

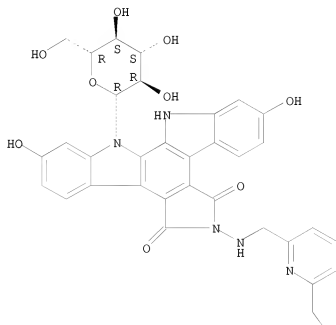
INDEX NAME)
 FS STEREOSEARCH
 MF C33 H29 N5 O10 . x H2 O4 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-86-2
 CMF C33 H29 N5 O10

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



CM 2

CRN 7664-93-9
 CMF H2 O4 S

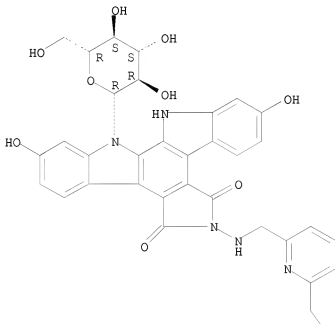


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 8 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 835621-45-9 REGISTRY
ED Entered STN: 22 Feb 2005
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[6-
(hydroxymethyl)-2-pyridinyl]methyl]amino]-, hydrochloride (9CI) (CA INDEX
NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10 . x Cl H
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (213039-86-2)

Absolute stereochemistry.

PAGE 1-A



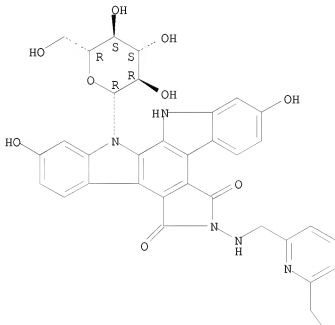
OH

● x HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 9 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 835621-44-8 REGISTRY
 ED Entered STN: 22 Feb 2005
 CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[6-
 (hydroxymethyl)-2-pyridinyl]methyl]amino]-, monohydrochloride (9CI) (CA
 INDEX NAME)
 FS STEREOSEARCH
 MF C33 H29 N5 O10 . C1 H
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 CRN (213039-86-2)

Absolute stereochemistry.



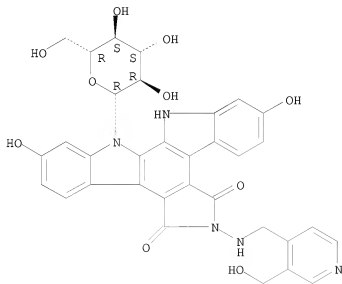
OH

● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 10 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 835621-43-7 REGISTRY
 ED Entered STN: 22 Feb 2005
 CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
 (hydroxymethyl)-4-pyridinyl]methyl]amino]-, methanesulfonate (salt) (9CI)
 (CA INDEX NAME)
 FS STEREOSEARCH
 MF C33 H29 N5 O10 . x C H4 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 CM 1
 CRN 213039-73-7
 CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2
 CRN 75-75-2
 CMF C H4 O3 S



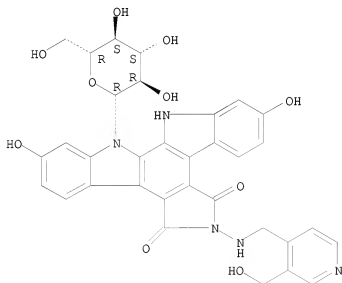
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 11 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 835621-42-6 REGISTRY
ED Entered STN: 22 Feb 2005
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methyl]amino]-, sulfate (salt) (9CI) (CA
INDEX NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10 . x H2 O4 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-73-7
CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 7664-93-9
CMF H2 O4 S

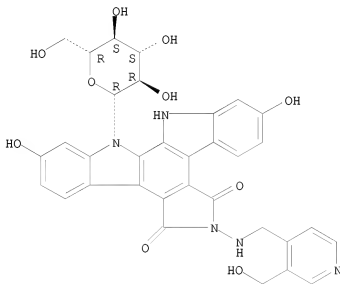


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 12 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 835621-41-5 REGISTRY
ED Entered STN: 22 Feb 2005
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methylamino]-, hydrochloride (9CI) (CA INDEX
NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10 . x Cl H
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (213039-73-7)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

● x HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

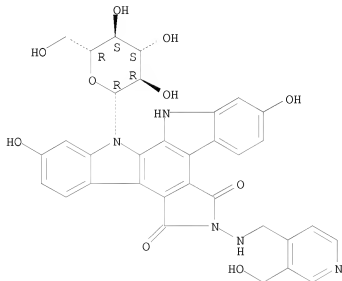
L3 ANSWER 13 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 835621-40-4 REGISTRY
 ED Entered STN: 22 Feb 2005
 CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
 (hydroxymethyl)-4-pyridinyl]methyl]amino]-, monomethanesulfonate (salt)
 (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C33 H29 N5 O10 . C H4 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 75-75-2

CMF C H4 O3 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

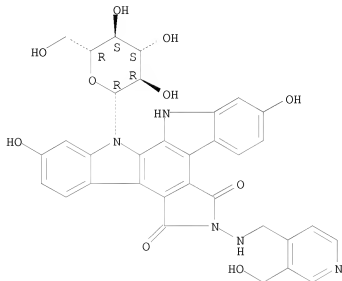
L3 ANSWER 14 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 835621-39-1 REGISTRY
 ED Entered STN: 22 Feb 2005
 CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
 (hydroxymethyl)-4-pyridinyl]methyl]amino]-, sulfate (2:1) (salt) (9CI)
 (CA INDEX NAME)
 FS STEREOSEARCH
 MF C33 H29 N5 O10 . 1/2 H2 O4 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 7664-93-9

CMF H2 O4 S

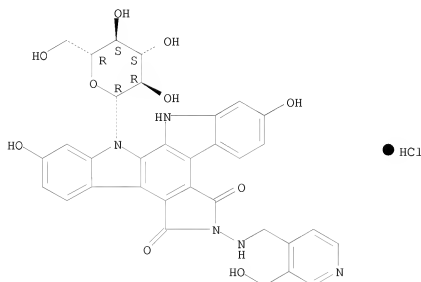


1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 15 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
 RN ~~835621-38-0~~ REGISTRY
 ED Entered STN: 22 Feb 2005
 CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(
 hydroxymethyl)-4-pyridinyl]methyl]amino]-, monohydrochloride (9CI) (CA
 INDEX NAME)
 FS STEREOSEARCH
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 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 CRN (213039-73-7)

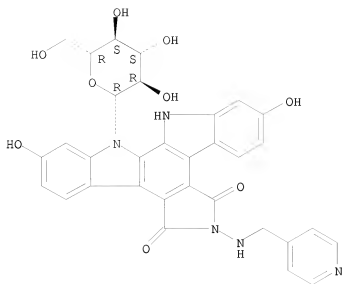
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 16 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
 RN ~~668486-47-3~~ REGISTRY
 ED Entered STN: 29 Mar 2004
 CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[4-(
 pyridinylmethyl)amino]- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C32 H27 N5 O9
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

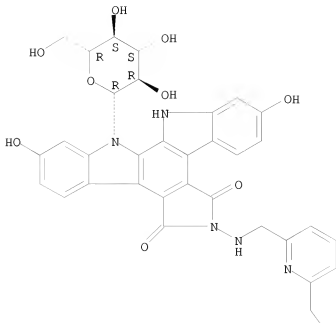


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3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 17 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 213039-86-2 REGISTRY
ED Entered STN: 22 Oct 1998
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[6-(
(hydroxymethyl)-2-pyridinyl)methyl]amino]- (CA INDEX NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10
CI COM
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

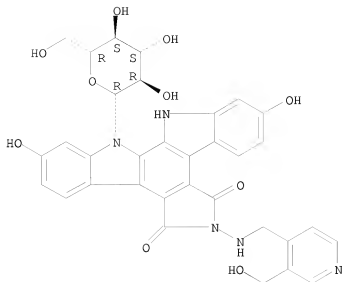


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3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 18 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 213039-73-7 REGISTRY
ED Entered STN: 22 Oct 1998
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methyl]amino]- (CA INDEX NAME)
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MF C33 H29 N5 O10
CI COM
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

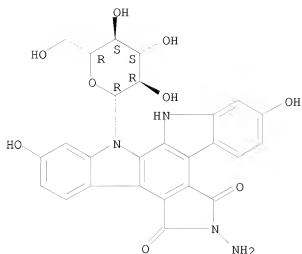


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 19 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 151069-56-6 REGISTRY
ED Entered STN: 09 Nov 1993
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
6-amino-12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy- (CA
INDEX NAME)
FS STEREOSEARCH
MF C26 H22 N4 O9
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 20 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 7732-18-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Water (CA INDEX NAME)
OTHER NAMES:
CN Aquafina
CN Distilled water
CN DRiWATER
CN Hydrogen oxide (H2O)
CN NSC 147337
CN R 718
CN Spa
DR 558440-22-5, 558440-53-2
MF H2 O
CI COM
LC STN Files: ANABSTR, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CSCHEM, CSNB, DETHERM*,
EMBASE, GMELIN*, IFCDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
PIRA, PROMT, RTECS*, SCISEARCH, SPECINFO, TOXCENTER, ULIDAT, USAN,
USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

H2O

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

418846 REFERENCES IN FILE CA (1907 TO DATE)

1463 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
419887 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 21 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 872-85-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 4-Pyridinecarboxaldehyde (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Isonicotinaldehyde (8CI)
OTHER NAMES:
CN γ -Formylpyridine
CN 4-Formylpyridine
CN 4-Pyridinealdehyde
CN Isonicotinic aldehyde
CN NSC 8953
CN p-Formylpyridine
CN p-Pyridinealdehyde
CN Pyridin-4-al
CN Pyridin-4-carboxaldehyde
CN Pyridin-4-ylcarboxaldehyde
CN Pyridine-4-carbaldehyde
DR 942039-01-2
MF C6 H5 N O
CI COM
LC STN Files: AQUIRE, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CSChem, DETHERM*, EMBASE, GMELIN*,
IFICDB, IFIPAT, IFIUDB, MSDS-OHS, NAPRALERT, PS, RTECS*, SPECINFO,
SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3554 REFERENCES IN FILE CA (1907 TO DATE)
47 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3579 REFERENCES IN FILE CAPLUS (1907 TO DATE)
23 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 22 OF 22 REGISTRY COPYRIGHT 2008 ACS on STN
RN 64-19-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetic acid (CA INDEX NAME)
OTHER NAMES:
CN Aci-Jel
CN E 260
CN Ethanoic acid
CN Ethanoic acid monomer

CN Ethylic acid
CN Glacial acetic acid
CN Methanecarboxylic acid
CN NSC 111201
CN NSC 112209
CN NSC 115870
CN NSC 127175
CN NSC 132953
CN NSC 406306
CN Vinegar acid
DR 77671-22-8
MF C2 H4 O2
CI COM

Supplier: ALDRICH Chemical Company, Inc.

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



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115648 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> FILE REG

=> STR 213039-73-7

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L4 STRUCTURE CREATED

=> S L4 FAM FUL

FULL SEARCH INITIATED 09:05:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 19 TO ITERATE

100.0% PROCESSED 19 ITERATIONS
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8 ANSWERS

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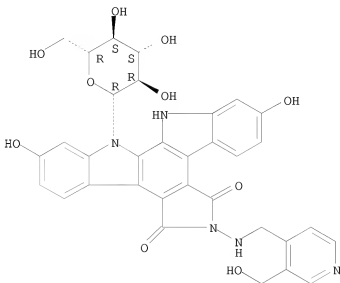
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12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methyl]amino]-, hydrochloride (9CI)
MF C33 H29 N5 O10 . x Cl H

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

●x HCl

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

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1 US20060229264/PN
SELECT RN L2 1-

L3 FILE 'REGISTRY' ENTERED AT 09:03:44 ON 02 OCT 2008
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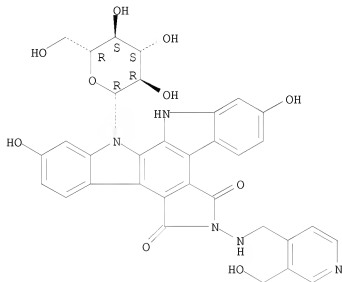
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RN 835621-53-9 REGISTRY
ED Entered STN: 22 Feb 2005
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12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methyl]amino]-, monomethanesulfonate (salt),
compd. with ethanol (1:1) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10 . C2 H6 O . C H4 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-73-7
CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 75-75-2
CMF C H4 O3 S



CM 3

CRN 64-17-5

CMF C2 H6 O



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2008 ACS on STN

RN 835621-43-7 REGISTRY

ED Entered STN: 22 Feb 2005

CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methyl]amino]-, methanesulfonate (salt) (9CI)
(CA INDEX NAME)

FS STEREOSEARCH

MF C33 H29 N5 O10 . x C H4 O3 S

SR CA

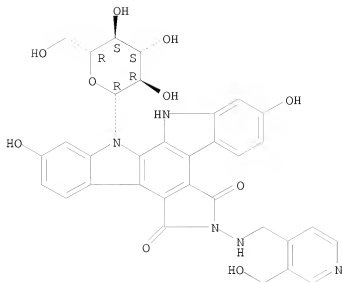
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 75-75-2

CMF C H4 O3 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2008 ACS on STN

RN 835621-42-6 REGISTRY

ED Entered STN: 22 Feb 2005

CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(
hydroxymethyl)-4-pyridinyl]methyl]amino]-, sulfate (salt) (9CI) (CA
INDEX NAME)

FS STEREOSEARCH

MF C33 H29 N5 O10 . x H2 O4 S

SR CA

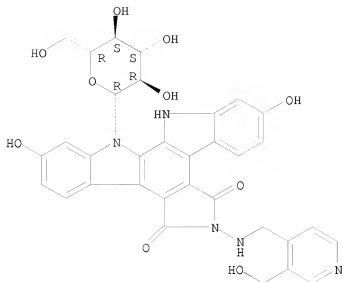
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 7664-93-9

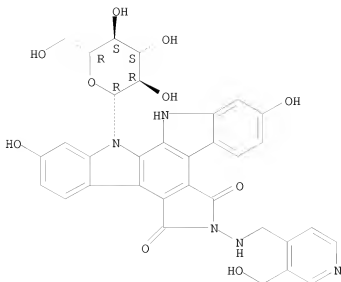
CMF H2 O4 S



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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RN 835621-41-5 REGISTRY
ED Entered STN: 22 Feb 2005
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12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methylamino]-, hydrochloride (9CI) (CA INDEX
NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10 . x Cl H
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (213039-73-7)

Absolute stereochemistry.



● x HCl

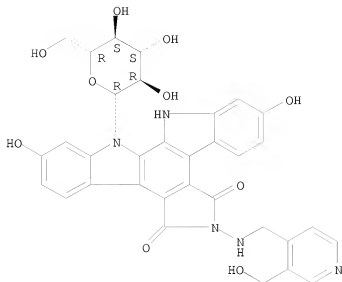
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2008 ACS on STN
RN 835621-40-4 REGISTRY
ED Entered STN: 22 Feb 2005
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(
(hydroxymethyl)-4-pyridinyl]methyl]amino]-, monomethanesulfonate (salt)
(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10 . C H4 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-73-7
CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 75-75-2

CMF C H4 O3 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2008 ACS on STN

RN 835621-39-1 REGISTRY

ED Entered STN: 22 Feb 2005

CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methyl]amino]-, sulfate (2:1) (salt) (9CI)
(CA INDEX NAME)

FS STEREOSEARCH

MF C33 H29 N5 O10 . 1/2 H2 O4 S

SR CA

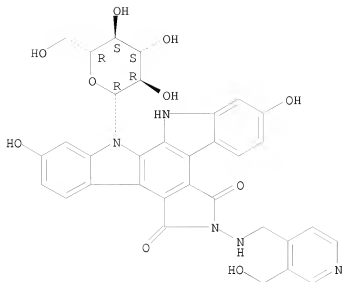
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 7664-93-9

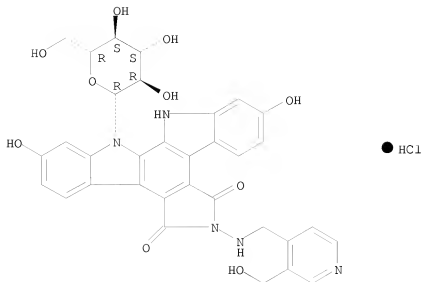
CMF H2 O4 S



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2008 ACS on STN
RN 835621-38-0 REGISTRY
ED Entered STN: 22 Feb 2005
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12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(
(hydroxymethyl)-4-pyridinyl)methyl]amino]-, monohydrochloride (9CI) (CA
INDEX NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10 . C1 H
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (213039-73-7)

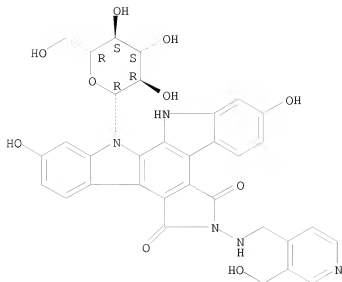
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2008 ACS on STN
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ED Entered STN: 22 Oct 1998
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12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methyl]amino]- (CA INDEX NAME)
FS STEREOSEARCH
MF C33 H29 N5 O10
CI COM
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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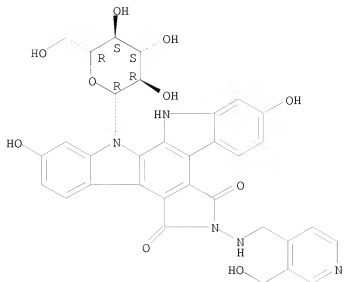
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L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:99516 CAPLUS <<LOGINID::20081002>>
DOCUMENT NUMBER: 142:183322
TITLE: Preparation of crystalline 6-N-pyridylmethylaminoindolocarbazoles as anticancer agents
INVENTOR(S): Imamura, Hideaki; Sunami, Satoshi; Hirano, Atsushi; Ohkubo, Mitsuru; Akao, Atsushi
PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005010018	A1	20050203	WO 2003-JP9393	20030724
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LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
 PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
 TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU 2003248104 A1 20050214 AU 2003-248104 20030724
 AU 2004259288 A1 20050203 AU 2004-259288 20040721
 CA 2533375 A1 20050203 CA 2004-2533375 20040721
 WO 2005010019 A1 20050203 WO 2004-JP10741 20040721
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 EP 1652853 A1 20060503 EP 2004-748012 20040721
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 CN 1826348 A 20060830 CN 2004-80021269 20040721
 US 20060229264 A1 20061012 US 2006-565327 20060120
 IN 2006DN00841 A 20070810 IN 2006-DN841 20060220
 PRIORITY APPLN. INFO.: WO 2003-JP9393 A 20030724
 WO 2004-JP10741 W 20040721
 OTHER SOURCE(S): MARPAT 142:183322
 IT 213039-73-7P 835621-38-0P
 RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic
 use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of crystalline 6-N-pyridylmethylaminoindolocarbazoles as
 anticancer agents)
 RN 213039-73-7 CAPLUS
 CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
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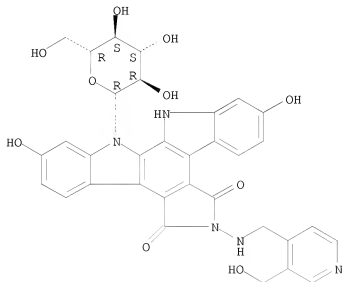
Absolute stereochemistry.



RN 835621-38-0 CAPLUS

CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(
hydroxymethyl)-4-pyridinyl]methyl]amino]-, monohydrochloride (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



● HCl

IT 835621-53-9

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)

(preparation of crystalline 6-N-pyridylmethylaminoindolocarbazoles as
anticancer
agents)

RN 835621-53-9 CAPLUS

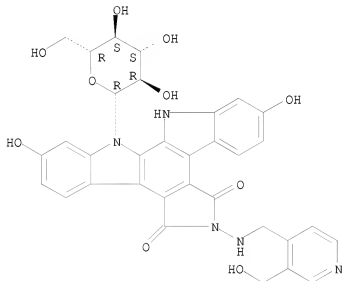
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12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(
(hydroxymethyl)-4-pyridinyl)methyl]amino]-, monomethanesulfonate (salt),
compd. with ethanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 75-75-2

CMF C H4 O3 S



CM 3

CRN 64-17-5

CMF C2 H6 O



IT 835621-39-1P 835621-40-4P
 RL: PUR (Purification or recovery); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (preparation of crystalline 6-N-pyridylmethylaminoindolocarbazoles as
 anticancer

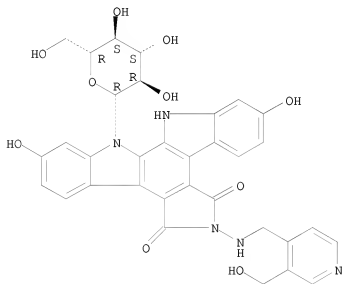
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 (hydroxymethyl)-4-pyridinyl]methyl]amino]-, sulfate (2:1) (salt) (9CI)
 (CA INDEX NAME)

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 7664-93-9

CMF H2 O4 S



RN 835621-40-4 CAPLUS

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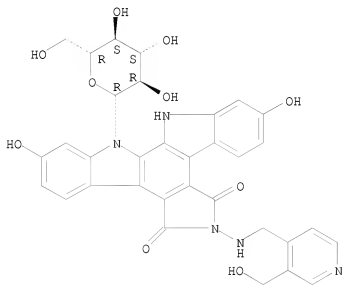
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(hydroxymethyl)-4-pyridinyl]methyl]amino]-, monomethanesulfonate (salt)
(9CI) (CA INDEX NAME)

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 75-75-2

CMF C H4 O3 S



IT 835621-41-5 835621-42-6 835621-43-7

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

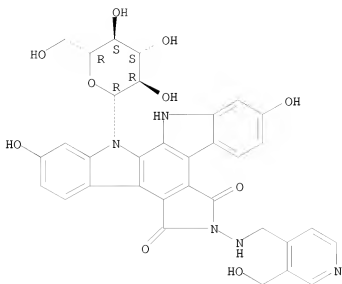
(preparation of crystalline 6-N-pyridylmethylaminoindolocarbazoles as anticancer agents)

RN 835621-41-5 CAPLUS

CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione, 12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(hydroxymethyl)-4-pyridinyl]methyl]amino]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

●x HCl

RN 835621-42-6 CAPLUS

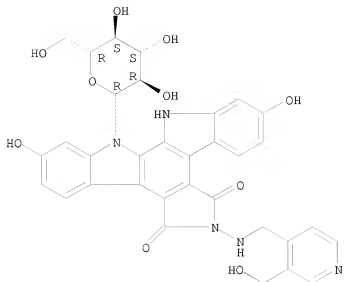
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methyl]amino]-, sulfate (salt) (9CI) (CA
INDEX NAME)

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 7664-93-9

CMF H2 O4 S



RN 835621-43-7 CAPLUS

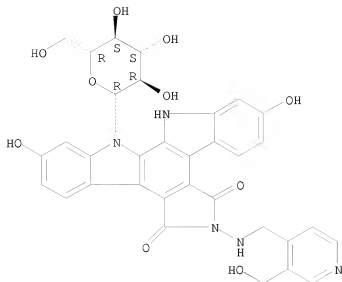
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(
hydroxymethyl)-4-pyridinyl]methylamino]-, methanesulfonate (salt) (9CI)
(CA INDEX NAME)

CM 1

CRN 213039-73-7

CMF C33 H29 N5 O10

Absolute stereochemistry.



CM 2

CRN 75-75-2

CMF C H4 O3 S



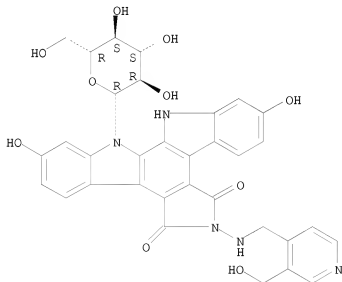
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L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:191117 CAPLUS <<LOGINID:20081002>>
 DOCUMENT NUMBER: 140:236007
 TITLE: Preparation of indolopyrrolocarbazole derivatives having glucopyranosyl group and antitumor agents containing them
 INVENTOR(S): Kojiri, Katsuhisa; Kondo, Hisao; Arakawa, Hiroharu; Ohkubo, Mitsuru; Suda, Hiroyuki
 PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan
 SOURCE: U.S., 17 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6703373	B1	20040309	US 2002-70825	20020311

WO 2004083228 A1 20040930 WO 1999-JP4911 19990910
W: US
PRIORITY APPLN. INFO.: WO 1999-JP4911 W 19990910
OTHER SOURCE(S): MARPAT 140:236007
IT 213039-73-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(preparation of glucopyranosylindolopyrrolocarbazole derivs. as antitumor
agents)
RN 213039-73-7 CAPLUS
CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-
(hydroxymethyl)-4-pyridinyl]methyl]amino]- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:600014 CAPLUS <<LOGINID::20081002>>
DOCUMENT NUMBER: 129:245410
ORIGINAL REFERENCE NO.: 129:49981a,49984a
TITLE: Preparation of indolopyrrolocarbazole derivatives
having glucopyranosyl group and antitumor agents
containing them
INVENTOR(S): Kojiri, Katsuhisa; Kondo, Hisao; Arakawa, Koji;
Ookubo, Mitsuru; Suda, Hiroyuki
PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10245390	A	19980914	JP 1997-61875	19970228
JP 3536574	B2	20040614		
JP 2004099617	A	20040402	JP 2003-351296	20031009
JP 4155150	B2	20080924		

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 129:245410

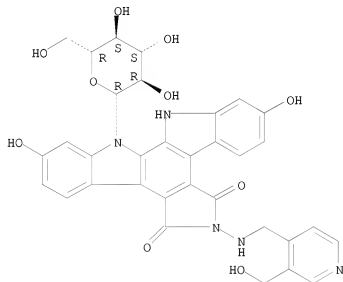
IT 213039-73-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of glucopyranosylindolopyrrolocarbazole derivs. as antitumor agents)

RN 213039-73-7 CAPLUS

CN 5H-Indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione,
12-β-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-[[[3-(hydroxymethyl)-4-pyridinyl]methyl]amino]- (CA INDEX NAME)

Absolute stereochemistry.



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